# Bureau of Land Management



# Amarillo Field Office Helium Operations







#### Distribution:

Fluid Minerals Group Manager, Washington Office

NMSO, New Mexico State Director NMSO, Associate State Director

NMSO, Petroleum Engineer

Field Manager, Amarillo Field Office

Assistant Field Managers (3)

Team Leaders

- -Federal Leased Lands
- -Resources Evaluation & Gas Analysis
- -Natural Gas Engineering

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Amarillo, Texas

Issued: August 10, 2006

"Please Note: Data in this report is accurate as of print date; however all data is subject to change."

Approved for distribution: Nelson R. Bullard Date: 08/10/2006

Cross Volume   Net Helium   Newrage Percent   Gross Cumulative   Net	Helium Enrichment Unit Operations	B. A	nth			
Plane  Forced	Gas Processed		i -	Average Percent	Gross Cumulative	Net Cumulativ
Helium Product	Plant Feed					5,025,1
Natural Gas & Liquids Produced   Gas Processed   Month   FPT	Helium Product					4,963,5
Sas Processed   Month   Fr   Fr   Cardian   Fr   Cardian   Fr   Cardian   Fr   Cardian   Cardi	Residue Natural Gas					96
Sas Processed   Month   Fr   Fr   Cardian   Fr   Cardian   Fr   Cardian   Fr   Cardian   Cardi	Natural Gas & Liquids Produced					
No.   Section   No.	Gas Processed				Month	FYT
Month   North   14.73 pais & 60°F	Natural Gas Sales (Mcf***)				264,955	2,156,89
Month   North   Nort	NGL Sales (gallons)				87,539	656,0
Cross Yolume   Net Helium   Average Percent   Gross Cumulative   Net Cumula (Incidential Withdrawn   66,997   195,392   22,398   155,509,749   24,562	*** Volumes in Mcf at 14.73 psia & 60°F					
Total Windrawn				Average Percent	Gross Cumulative	Net Cumulati
Crude Injection   0   0   0   0   0   0   0   0   0	•					
Storage Operations   Storage			· ·			
Storage Operations   Sconservation Helium   Month   FYTD   CYTD   Cumula Open Marker Sale Volumes (Mct*)   315,000   1,495,000   895,000   4,600.6   Conservation Helium in Storage (EOM)   23,801,315   Storage Foot Sale Volumes (Mct*)   Sale Volumes (Mct*)   Sale Volumes (Mct*)   Sale Volumes (Month   FYTD   CYTD   Cumula Sale Volumes (Month   FYTD   CYTD   Cumula Sale Volumes (Month   Sale V	•					
Conservation Helium	Stade Production	39,004	29,117	74.34%	460,143	355,40
Digen Market Sale Volumes (Mct*)				EVED	0)/TD	
Conservation Helium in Storage (EOM)   23,801,315						
In Kind Helium				1,495,000	895,000	4,600,60
Saie Volumes Transfarred	Conservation Helium in Storage (EOM)  * Volumes in Mcf at 14.65 psia & 60°F		23,801,315			
Saile Volumes Transferred	n Kind Helium		Month	FYTD	CYTD	Cumulat
Sale Volumes Outstanding						
Private Company Helium Storage Contracts			· ·	.00,00	30,00.	.,. 52,.
Contact Activity	· · · · · · · · · · · · · · · · · · ·		10,201			
Crude Acquired   66,249   43,875   66.23%   547,9	Private Company Helium Storage Contracts	S	Мо	nth		Annual
Crude Acquired         66,249         43,875         66,23%         547,9           Crude Disposed         311,532         233,104         74,83%         2,028,4           Net Balance         (245,283)         (189,229)         (1,480,4           Balance of Stored Helium End Of Month         1,137,668         (1,480,4           Revenue / Charges           Revenue / Charges Billed (\$)         Month         FY           Storage Fees Billed (\$)         \$309,021         \$2,491,2           Reservoir Management Fees Billed (\$)         \$219,238         \$1,684,3           Field Compressor Charges (Charges Billed (\$)         Month         FY           Funded by Cliffside Refiners, LP (provides for booster compression services)         (\$57,960)         (\$534,96)           Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)         \$14,164         \$140,7           Net-Total (Funded by the four Refiners to the Cliffside Refiners, LP for the compression costs.)         (\$43,796)         (\$394,1           Enrichment Unit Charges (Charges Billed (\$)         Month         FY           Reservior Management Fees (RMF)         \$219,238         \$1,684,3           Total operating costs         \$384,113         \$3,811,6           Sub Total - Cliffside Refiners, LP, GD	Contact Activity		Gross Volume	Net Helium	Average Percent	Helium FYTI
(1,480,4   245,283   (189,229   (1,480,4   245,283   1,137,668   2,1480,4	•		66,249	43,875		547,9
Balance of Stored Helium End Of Month /olumes in Mcf at 14.65 psia & 60°F  Revenue / Charges Helium Storage Contracts (Charges Billed (\$)	Crude Disposed		311,532	233,104	74.83%	2,028,4
	Net Balance		(245,283)	(189,229)		(1,480,4
Helium Storage Contracts	Balance of Stored Helium End Of Month Volumes in Mcf at 14.65 psia & 60°F			1,137,668		
Helium Storage Contracts	Povenue / Charges					
Storage Fees Billed (\$)   \$309,021   \$2,491,28   \$219,238   \$1,684,38   \$219,238   \$1,684,38   \$1,68					Manth	ΓV
Seservoir Management Fees Billed (\$)   \$219,238   \$1,684,35    Field Compressor Charges (Charges Billed (\$)   Month   FY						
Field Compressor Charges (Charges Billed (\$)         Month         FY           Funded by Cliffside Refiners, LP (provides for booster compression services)         (\$57,960)         (\$534,9           Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)         \$14.164         \$140,7           Net-Total (Funded by the four Refiners to the Cliffside Refiners, LP for the compression costs.)         (\$43,796)         (\$394,1           Enrichment Unit Charges (Charges Billed (\$)         Month         FY           Reservior Management Fees (RMF)         \$219,238         \$1,684,3           Total operating costs         (\$852,613)         (\$7,828,1           Sub Total - Items provided by BLM         \$384,113         \$3,611,6           Total - Cliffside Refiners, LP, GDA030001         (\$468,500)         (\$4,216,5           Conservation Helium - Natural Gas - Liquid Sales         (Charges Billed (\$)         Month         FY           Open Market Sales         \$0         \$83,267,5         \$7,008,3           Natural Gas & Liquid Sales         \$1,691,164         \$17,631,0           Helium Resources Evaluation         Month         FY           Revenue Collected from Federal Lease Holds         \$701,239         \$5,698,9						
Funded by Cliffside Refiners, LP (provides for booster compression services)  (\$57,960) (\$534,9 Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)  Net-Total (Funded by the four Refiners to the Cliffside Refiners, LP for the compression costs.)  (\$43,796) (\$394,1  Enrichment Unit Charges (Charges Billed (\$))  Reservior Management Fees (RMF)  Fotal operating costs  (\$852,613) (\$7,828,1  Fotal - Cliffside Refiners, LP, GDA030001  (\$468,500) (\$4,216,5  Conservation Helium - Natural Gas - Liquid Sales  Natural Gas & Liquid Sales  Natural Gas & Liquid Sales  (Charges Billed (\$))  Month FY  Sylvania (\$468,500) (\$4,216,5  Month FY  Sylvania (\$468	Reservoir Management Fees Billed (\$)				\$219,238	\$1,684,3
Cliffside Refiners, LP, by Agreement #GDA010003 (reimburses BLM for fuel, labor, supplies, etc.)       \$14,164       \$140.7         Net-Total (Funded by the four Refiners to the Cliffside Refiners, LP for the compression costs.)       (\$43,796)       (\$394,1         Enrichment Unit Charges (Charges Billed (\$)       Month       FY         Reservior Management Fees (RMF)       \$219,238       \$1,684,3         Fotal operating costs       (\$852,613)       (\$7,828,1         Sub Total - Items provided by BLM       \$384,113       \$3,611,6         Fotal - Cliffside Refiners, LP, GDA030001       (\$468,500)       (\$4,216,5         Conservation Helium - Natural Gas - Liquid Sales       (Charges Billed (\$)       Month       FY         Open Market Sales       \$0       \$83,267,5       \$7,008,3       \$1,691,164       \$17,631,0         Natural Gas & Liquid Sales       \$1,691,164       \$17,631,0       \$17,631,0       \$1,691,164       \$17,631,0         Helium Resources Evaluation       Month       FY       \$701,239       \$5,698,9       \$5,698,9	Field Compressor Charges (Charges Billed (\$)				Month	FY
Net-Total (Funded by the four Refiners to the Cliffside Refiners, LP for the compression costs.)   Say 1, 1	Funded by Cliffside Refiners, LP (provides for booster compr	ession services)			(\$57,960)	(\$534,9
Month   FY	Cliffside Refiners, LP, by Agreement #GDA010003 (reimburse	es BLM for fuel, labor, s	supplies, etc.)		<u>\$14,164</u>	\$140,7
Seservior Management Fees (RMF)   \$219,238   \$1,684,3     Fotal operating costs   \$852,613   \$7,828,1     Sub Total - Items provided by BLM   \$384,113   \$3,611,6     Fotal - Cliffside Refiners, LP, GDA030001   \$468,500   \$4468,500     Conservation Helium - Natural Gas - Liquid Sales   \$0   \$83,267,5     Conservation Helium - Natural Gas - Liquid Sales   \$2,446,285   \$7,008,3     Natural Gas & Liquid Sales   \$1,691,164   \$17,631,0     Helium Resources Evaluation   Month   FY     Revenue Collected from Federal Lease Holds   \$701,239   \$5,698,98,98     Standard Control of the Control o	Net-Total (Funded by the four Refiners to the Cliffside Refiner	s, LP for the compress	sion costs.)		(\$43,796)	(\$394,1
Cotal operating costs   (\$852,613) (\$7,828,13)	Enrichment Unit Charges (Charges Billed (\$)				Month	FY
Sub Total - Items provided by BLM       \$384,113       \$3,611,6         Total - Cliffside Refiners, LP, GDA030001       (\$468,500)       (\$4,216,5         Conservation Helium - Natural Gas - Liquid Sales       (Charges Billed (\$)       Month       FY         Open Market Sales       \$0       \$83,267,5       \$7,008,3         In Kind Sales       \$2,446,285       \$7,008,3         Natural Gas & Liquid Sales       \$1,691,164       \$17,631,0         Helium Resources Evaluation         Revenue Collected from Federal Lease Holds       \$701,239       \$5,698,9	Reservior Management Fees (RMF)				\$219,238	\$1,684,3
Conservation Helium - Natural Gas - Liquid Sales         (Charges Billed (\$)         Month         FY           Open Market Sales         \$0         \$83,267,5           In Kind Sales         \$2,446,285         \$7,008,3           Natural Gas & Liquid Sales         \$1,691,164         \$17,631,0           Helium Resources Evaluation         Month         FY           Revenue Collected from Federal Lease Holds         \$701,239         \$5,698,9	Total operating costs				(\$852,613)	(\$7,828,1)
Conservation Helium - Natural Gas - Liquid Sales         (Charges Billed (\$)         Month         FY           Open Market Sales         \$0         \$83,267,5           n Kind Sales         \$2,446,285         \$7,008,3           Natural Gas & Liquid Sales         \$1,691,164         \$17,631,0           Helium Resources Evaluation         Month         FY           Revenue Collected from Federal Lease Holds         \$701,239         \$5,698,9	Sub Total - Items provided by BLM				\$384,113	\$3,611,60
Open Market Sales         \$0         \$83,267,5           n Kind Sales         \$2,446,285         \$7,008,3           Natural Gas & Liquid Sales         \$1,691,164         \$17,631,0           Helium Resources Evaluation         Month         FY           Revenue Collected from Federal Lease Holds         \$701,239         \$5,698,9	Total - Cliffside Refiners, LP, GDA030001				(\$468,500)	(\$4,216,50
n Kind Sales       \$2,446,285       \$7,008,3         Natural Gas & Liquid Sales       \$1,691,164       \$17,631,0         Helium Resources Evaluation       Month       FY         Revenue Collected from Federal Lease Holds       \$701,239       \$5,698,9	Conservation Helium - Natural Gas - Liquid	Sales	(Charges Billed (\$)		Month	FY
Natural Gas & Liquid Sales         \$1,691,164         \$17,631,0           Helium Resources Evaluation         Month         FY           Revenue Collected from Federal Lease Holds         \$701,239         \$5,698,9	Open Market Sales				\$0	\$83,267,5
Natural Gas & Liquid Sales         \$1,691,164         \$17,631,0           Helium Resources Evaluation         Month         FY           Revenue Collected from Federal Lease Holds         \$701,239         \$5,698,9				·	\$2,446,285	\$7,008,34
Revenue Collected from Federal Lease Holds \$701,239 \$5,698,9						\$17,631,0
Revenue Collected from Federal Lease Holds \$701,239 \$5,698,9	Helium Resources Evaluation				Month	FY
		od - 11	Received -	5		

	ĺ	Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitro	ogen	Met	hane	Ethan	e plus	Other (CC	02, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
TOTAL		665,957	155,240,746	195,352	24,562,131	165,333	37,990,380	270,860	83,191,422	28,908	8,213,233	<u>5,505</u>	1,283,580
BIVINS A-3	Jun-06	19,185	9,203,882	11,407	2,562,126	4,892	2,330,440	2,532	3,871,074	235	377,895	119	62,347
BIVINS A-6	Jun-06	38,079	7,664,760	28,409	4,334,654	8,371	1,915,281	996	1,266,221	48	122,412	256	26,192
BIVINS A-13	Jun-06	46,451	3,065,394	26,764	2,020,513	11,681	824,388	7,000	191,736	689	19,375	316	9,383
BIVINS A-14	Jun-06	17,384	3,334,826	12,858	2,351,045	3,525	868,973	822	97,791	58	9,535	121	7,482
BIVINS A-4	Jun-06	46,428	9,263,098	22,116	1,321,167	11,309	2,239,191	11,394	5,119,765	1,256	502,039	353	80,936
BUSH A-2	Jun-06	44,865	8,440,893	20,012	993,031	11,467	2,037,167	11,726	4,855,378	1,348	478,782	312	76,536
Injection	Jun-06	0	65,508,749	0	47,273,838	0	16,927,126	0	761,740	0	16	0	546,029
inj Bivins A-3	Jun-06	0	(25,652,212)	0	(18,384,374)	0	(6,554,527)	0	(332,774)	0	0	0	(380,537)
inj Bivins A-6	Jun-06	0	(23,469,328)	0	(16,941,779)	0	(6,296,882)	0	(124,277)	0	(7)	0	(106,384)
inj Bivins A-13	Jun-06	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Jun-06	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Jun-06	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Jun-06	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Jun-06	39,064	480,145	29,117	353,482	8,579	102,693	1,053	19,366	53	1,346	262	3,257
BIVINS A-1	Jun-06	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Jun-06	25,868	11,704,205	3,810	1,736,608	6,382	2,883,066	13,971	6,363,361	1,490	626,237	215	94,933
BIVINS A-5	Jun-06	32,439	12,492,180	9,409	1,214,781	8,276	3,029,365	13,042	7,406,380	1,467	730,148	245	111,507
BIVINS A-7	Jun-06	29,483	8,731,873	10,258	1,764,703	7,666	2,173,380	10,199	4,302,222	1,163	426,319	197	65,250
BIVINS A-9	Jun-06	41,603	7,270,427	818	133,610	10,584	1,751,881	27,009	4,835,514	2,844	479,678	348	69,744
BIVINS A-11	Jun-06	32,363	3,510,195	662	65,167	8,189	852,800	20,997	2,325,369	2,215	233,019	300	33,839
BIVINS A-15	Jun-06	34,513	6,485,461	1,055	362,797	8,098	1,551,609	22,632	4,102,345	2,333	405,820	395	62,890
BIVINS B-1	Jun-06	41,581	4,343,816	1,912	175,535	10,214	1,044,703	26,303	2,800,325	2,757	281,357	395	41,897
BIVINS B-2	Jun-06	38,075	3,213,316	732	59,726	9,673	787,352	24,507	2,114,987	2,584	213,205	579	38,045
BUSH A-1	Jun-06	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Jun-06	38,691	8,262,874	20,864	1,155,417	9,973	2,008,906	6,742	4,573,749	799	450,745	313	74,056
BUSH A-4	Jun-06	25,925	5,932,707	7,229	1,046,817	6,680	1,467,327	10,674	3,068,398	1,181	304,363	161	45,802
BUSH A-5	Jun-06	44,528	11,689,073	14,273	2,297,018	11,360	2,913,445	16,794	5,817,411	1,847	574,718	254	86,481
BUSH A-8	Jun-06	10,329	2,450,163	190	44,728	2,503	584,128	6,787	1,633,379	703	161,643	147	26,285
BUSH A-9	Jun-06	43	3,365,824	1	78,958	10	804,323	29	2,230,705	3	220,113	0	31,724
BUSH A-11	Jun-06	23,142	2,649,382	897	71,253	5,579	631,652	14,846	1,743,414	1,545	174,650	275	28,411
BUSH B-1	Jun-06	4,567	3,085,176	97	57,919	1,088	731,751	3,026	2,062,941	315	202,173	41	30,391
FUQUA A-1	Jun-06	533	2,954,069	11	53,853	139	702,791	345	1,975,156	36	193,571	2	28,699
FUQUA A-2	Jun-06	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Jun-06	29,880	7,586,464	1,568	505,265	7,673	1,831,465	18,487	4,716,648	1,991	466,878	161	66,207
TT Fuel	Jun-06	129	0	0	0	0	0	0	0	0	0	0	0
	fie	ld-wide pcts		29.33%	15.82%	24.83%	24.47%	40.67%	53.59%	4.34%	5.29%	0.83%	0.83%

Latest	estimates	Ωf	reserves	and	feed	to HFII	

Based on NITEC's 2003 reserves study from NITEC's interim report

est z-factor 0.970

As of EOM	Jun-06	Volumes in BCF		
Initial Gas In P	lace	330.040		
Produced 1924	to 1961	48.830		
Injected 1924 t	o 1961	0.450		
Remaining Gas	s In Place 1961	281.660		
Left Behind Pip	pe, 1961	82.060	====> 1.500	BCF of contained helium
Remaining in F	Place, 1961	199.600		
Gas In Place 1	961	199.600		
Produced 1961	I to July 2002	82.450		
Injected 1961 t	o July 2002	64.510	Net Heliun	n
Remaining Gas	s In Place July 2002	181.660	33.997	•
Produced July	2002 through Dec 2002	1.096	0.743	}
Production 200	03 - 05	19.119	5.367	•
Injection 2003	- 05	(0.420)	(0.329	))
Produced to Da	ate 2006	3.745	1.057	•
Injected to Date	e 2006	(0.080)	(0.063	3)
Amount of Raw	Gas Available to CHEU	158.200	====> 27.221	total helium in reservoir
Estimated Bott	om Hole Pressure	576.407		

# Crude Helium Enrichment Unit Operations

		_			-		-				-		
	Gross Withdrawal		Vithdrawal	Net Helium Withdrawal		Nitr	ogen	Methane		Ethane plus		Other (CO2, Ar, H2)	
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Jun-06	634,600	20,583,117	168,089	5,025,116	159,239	5,172,362	272,919	9,220,180	29,165	989,722	5,187	175,738
Calculated Feed	Jun-06	626,764	20,827,748	166,232	5,095,971	156,723	5,232,580	269,722	9,324,579	28,846	997,166	5,241	177,452
Feed to Box	Jun-06	623,029	20,709,341	166,232	5,095,971	156,723	5,232,580	269,722	9,324,579	28,846	997,166	1,506	59,045
Cheu Product	Jun-06	210,427	6,329,494	165,640	4,963,510	39,282	1,197,309	4,036	124,773	0	263	1,469	43,638
Residue	Jun-06	278,757	9,188,222	0	963	7,092	227,841	247,025	8,142,183	24,641	816,054	0	1,181
Cold Box Vent	Jun-06	102,501	4,057,799	112	78,115	94,362	3,287,046	8,000	633,495	0	89	27	59,055
Flare/Boot Strap	Jun-06	0	0	0	0	0	0	0	0	0	0	0	0
Fuel From Cheu	Jun-06	10,800	223,808	5	159	324	6,318	8,743	180,287	1,728	37,043	0	0
Shrinkage/Loss	Jun-06	2,478	67,735	0	0	0	0	0	0	2,478	67,735	0	0
Unaccounted*	Jun-06	18,067	391,604	475	26,859	15,663	316,482	1,918	46,134	(0)	1,071	11	1,058
Flare/Boot Strap Fuel From Cheu Shrinkage/Loss	Jun-06 Jun-06 Jun-06	0 10,800 2,478	0 223,808 67,735	0 5 0	0 159 0	0 324 0	0 6,318 0	0 8,743 0	0 180,287 0	0 1,728 2,478	0 37,043 67,735	0 0 0	,

<sup>\*</sup>Before October 2004, the values are estimated

#### Storage Operations

Inventory (contained helium)		
	Government	Private
Beginning inventory	24,137,206	996,858
net acceptances +	0	0
redeliveries	0	(189,229)
In Kind Transfers	(15,039)	15,039
Open Market Sales	(315,000)	315,000
Gain/loss	(5,852)	
Ending Inventory	23,801,315	1,137,668
Total Helium in Reservoir	27,220,858	
Total Helium in Storage	24,938,983	
Helium in native gas	2,281,875	

#### Crude Helium Pipeline

	Gross	Net Helium	Percent
Beginning inventory	39,278	29,526	75.17%
Measured to Pipeline (Private Plants)	66,881	44,169	66.04%
Measured from Pipeline (Private Plant	311,545	233,104	74.82%
HEU Production	210,427	165,640	78.72%
Injection	0	0	0.00%
Production	39,064	29,117	74.54%
Ending Inventory	39,237	29,496	75.17%
Gain/Loss	(4,868)	(5,852)	

# Tuck Trigg Reservoir Operations

	-		Since Field	
Native Gas (Gross)	Month	Fiscal Year	Discovery	
Total in place, beg. of period	5,198,688	5,198,688	5,890,000	
Recoverable in place, beg. of period	4,528,688	4,528,688	5,220,000	
Production during period to date	0	0	691,312	
Total in place, end of month	5,198,688	5,198,688	5,198,688	
Recoverable in place, end of month	4,528,688	4,528,688	4,528,688	
Total in place, beg. of period Recoverable in place, beg. of period Production during period to date Total in place, end of month	5,198,688 4,528,688 0 5,198,688	5,198,688 4,528,688 0 5,198,688	5,890,000 5,220,000 691,312 5,198,688	

	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges	Billed (\$)**
In Kind Heliu	ım									
Aeriform, Contra	ct no. INC98-0	101							(b	illed quarterly)
Month FYTD										
AGA Gas, Inc., Co	ontract no INC	C98-0102								
Month	ontract no. nv	330-0102								
FYTD										
AirGas, Inc., Con	tract no. INC98	8-0103								
Month FYTD										
Air Liquide Heliu	m America Ind	c Contract no	INC98-	0104						
Month	in America, inc	o., oomiraat na		0104						
FYTD										
Air Products, L.P	., Contract no.	. INC98-0105								
Month										
FYTD	ım İno Contr	act no INCOO	0106							
BOC Global Heliu	am, mc., Contr	act 110. INC98-	0110							
FYTD										
Corp Brothers, In	nc., Contract n	o. INC98-0107								
Month										
FYTD										
FIBA Technologic	es, Inc., Contra	act no. INC98-	0108							
FYTD										
General Air Servi	ice & Supply C	o., Contract n	o. INC98	-0109						
Month	,	·								
FYTD										
Jack B. Kelley Co	o., Contract no	. INC98-0110								
Month FYTD										
Portland Welding	Supply, Cont	ract no. INC98	-0111							
Month	,, ,									
FYTD										
Praxair, Inc., Con	tract no. INC9	8-0112								
Month FYTD										
United States We	elding Inc. Co	ntract no INC	98-0113							
Month	namy, mo., co	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00 0110							
FYTD										
Tri-Gas, Inc., Cor	ntract no. INC9	8-0114								
Month FYTD										
GT & S, Contract	no INC00-011	15								
Month	110. 114000-011									
FYTD										
Total month	26,615	1,540	0	4,700	6,490	4,632	43,977	43,297		\$2,446,285
Total FYTD	71,850	4,759	0	12,477	20,136	18,399	127,621	125,652		\$7,008,341
Total CYTD	46,275	3,104	0	8,273	14,784	10,349	82,785	81,507		\$4,602,443
Cumulative	1,063,770	37,860	186	222,925	262,069	237,428	1,824,239	1,795,925		\$92,091,633
In Kind Trans	sfers						Month	FYTD	CYTD	Cumulative
Transferred							15,039	135,994	83,837	1,752,703
Volume outstanding							43,297			

<sup>\*</sup> Volumes in Mcf at 14.7 psia & 70°F

<sup>+</sup> Volumes in Mcf at 14.65 psia & 60°F

### **Helium & Natural Gas Sales**

	Award Volume*	Outstanding*	Sales*	Cha	rges Billed (\$)**
Conservation Helium					(billed quarterly)
Air Liquide Helium America, Inc.					
Month	0	0	0		\$0
FYTD	0	0	0		\$0
Cumulative	50,000		50,000		\$2,625,000
Air Products, L.P.					
Month	200,000	0	0		\$0
FYTD	500,000	200,000	660,000		\$36,570,000
Cumulative	1,700,400		1,500,400		\$81,011,000
BOC Global Helium, Inc.					
Month	270,000	0	0		\$0
FYTD	485,000	270,000	215,000		\$12,147,500
Cumulative	2,169,000		1,899,000		\$101,982,500
Keyes Helium Co., LLC					
Month	0	0	0		\$0
FYTD	0	0	40,000		\$2,180,000
Cumulative	191,200		191,200		\$10,231,400
AGA Gas, Inc.					\$0
Month	0	0	0		
FYTD	0	0	0		\$0
Cumulative	50,000		50,000		\$2,700,000
Praxair, Inc.					
Month	160,000	0	0		\$0
FYTD	500,000	160,000	540,000		\$30,110,000
Cumulative	960,000		800,000		\$44,280,000
Linde Gas LLC	40.000				<b>#</b> 0
Month FYTD	40,000	0	0		\$0
Cumulative	80,000	40,000	40,000		\$2,260,000
Total month	150,000 670,000	0	110,000		\$6,075,000 <b>\$0</b>
Total FYTD	1,565,000	670,000	1,495,000		\$83,267,500
Total CYTD	1,475,000	670,000	895,000		\$50,567,500
Cumulative	5,270,600		4,600,600		\$248,904,900
Open Market Transfers	3,213,000	Month	FYTD	CYTD	Cumulative
Transferred		315,000	1,495,000	895,000	4,600,600
		· ·	1,495,000	695,000	4,000,000
Volume outstanding		0			

<sup>\*</sup> Volumes in Mcf at 14.65 psia & 60°F

**Natural Gas/Liquid Sales** 

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	\$/unit	Charges Billed (\$)**
El Paso Natural Gas	<u>.</u> <u>S</u>	Provides Firm/Interru	ptible natural gas trar	nsportation services	(billed monthly)
Month	277,781		303,853	(\$0.0921)	(\$27,996)
FYTD	2,206,757		2,419,869	(\$0.1051)	(\$254,399)
Cumulative	8,780,040		9,648,353	(\$0.1118)	(\$1,079,168)
Minerals Manageme	ent Service	Provides natural gas	marketing services u	nder a Cooperative A	greement
Month					(\$2,439)
FYTD				(\$0.0038)	(\$8,341)
Cumulative				(\$0.0081)	(\$71,041)
<b>Cenergy Marketing</b>					
Month	264,955	0	289,861	\$5.603183	\$1,603,922
FYTD	2,156,893	0	2,365,316	\$7.269233	\$17,073,600
Cumulative	8,810,306	0	9,616,634	\$6.151040	\$58,803,365
Seminole Transpor	tation & Gathering				
Month	0	87,539	9,471	\$12.167419	\$115,238
FYTD	0	656,039	70,356	\$11.615548	\$817,223
Cumulative	0	2,151,309	226,875	\$9.588886	\$2,175,479
Total month	264,955	87,539	299,332	\$5.709203	\$1,688,725
Total FYTD	2,156,893	656,039	2,435,672	\$7.286908	\$17,628,083
Total CYTD	1,406,986	443,941	1,588,122	\$6.014228	\$9,452,453
Cumulative	8,810,306	2,151,309	9,843,509	\$6.113427	\$59,828,634

<sup>\*\*\*</sup> Volumes in Mcf at 14.73 psia & 60°F

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$674,465	\$5,642,610
Natural Gas Royalties (1)	\$2,101	\$23,595
Natural Gas Rentals	\$0	\$0
Other	\$32,479	\$81,692
Revenue Collected from Federal Lease Holds	\$701,239	\$5,698,934

<sup>\*</sup>Totals do not sum

Helium Analysis and Evaulation	Month	FYTD
Number of Sample Request Letters Sent	11	193
Number of Samples Received	5	30
Number of Samples Analyzed	13	47
Total Number of Samples Analyzed For Resources Division	33	79
Total Number of Samples Analyzed (2)	228	1,363

### **U. S. Helium Production**

Domestic	CY Volumes
2000 Helium Sold	4,564,589
2001 Helium Sold	4,756,719
2002 Helium Sold	4,584,904
2003 Helium Sold	4,393,555
2004 Helium Sold	4,692,699
2005 Helium Sold	4,800,782
2006 Helium Sold	4,500,000
Estimated Helium Resources (as of 01/01/2003)	305,000,000

		FY-2005	CY-2005
U.S. Helium Exports	(3)	1,826,048	1,851,322

- (1) Includes drip gas sales & other miscellaneous gas sales.
- (2) Includes pipeline, field survey, and other requested analyses.
- (3) Data from Department of Commerce Bureau of the Census.

All volumes	s in Mct at 14	.oo psia d		ed Gas			Transfe	erred Gas	Stored	Chara	es Billed
	Gross Gas H	elium %		eu Gas	Helium			Helium			\$)**
		Month	Hollani	FYTD	CYTD	Cumulative	Month	Cumulative	Helium EOM	Month	*′ FYTD
<b>Total All Contra</b>	acts*										
Crude Acquired	66,249	66.2%	43,875	547,957	379,408	27,032,252	358,462	32,742,472			
Crude Disposed	311,532	74.8%	233,104	2,028,436	1,345,016	30,126,756	28,423	27,031,582		\$309,021	Storage Fees
Grade-A Rdlvrd	0		0	0	0	1,478,718	-, -	, ,		\$219,238	RMF Fees
Net/Balance	(245,283)			(1,480,479)	(965,608)		330,039	5,710,890	1,137,668	\$528,259	\$4,175,522
<b>Total Prior Con</b>	,	NATED)	, ,	( ) /	, ,	( , , , ,	,	, ,		. ,	
Crude Acquired	(	,		0	0	17,406,129	0	18,196,898			
Crude Disposed				0	0	11,830,863	0	19,148,768			
Grade-A Rdlvrd				0	0	1,478,718		, , , , , ,			
Number of trailers				0	0	9,834			0		
<b>BOC Global He</b>		ntract no.	1995-324	9		,					
Crude Acquired	,, 50.										
Crude Disposed											
Net/Balance											
Praxair, Inc., Co	ontract no. 19	95-3251									
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L	.P., Contract r	no. 1995-3	3256								
Crude Acquired	,										
Crude Disposed											
Net/Balance											
Oneok Field Se	rvices. Contra	act no. 19	95-3258								
Crude Acquired											
Crude Disposed											
Net/Balance											
ExxonMobil Ga	s Marketing C	o Contr	act no. 19	95-3280							
Crude Acquired	g	,									
Crude Disposed											
Net/Balance											
Pioneer, Contra	act no. 1995-3	286									
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium (	Co., LLC, Cont	tract no. 1	1995-3287								
Crude Acquired	, , , , , , , , , , , , , , , , , , , ,										
Crude Disposed											
Net/Balance											
Linde Gas LLC	Contract no.	2001-328	2								
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Liquide Heli	ium America.	Inc., Cont	tract no. 2	2003-3284							
Crude Acquired	,	•									
Crude Disposed											
Net/Balance											

Government Hendin						
Remaining Crude Acquired beginning of the month 24,1						
Crude Disposed: In Kind Sales transferred for the month	(15,039)					
Open Market/Reserve Sell Down transferred for the month	(315,000)					
Gains and Loses for the month	<u>(5,852)</u>					
Net/Balance of Purchased Helium Remaining for Sale	23,801,315					

<sup>\*</sup>Includes In Kind and Open Market transfers from Government storage

\*\*Rounded to nearest dollar

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$5.60	\$7.19	\$5.90
Fuel used *	total MMBTU	12,678	121,087	437,489
Field compressor fuel revenue *	\$dollars	\$6,702	\$47,360	\$522,753
HEU compressor fuel credit *	\$dollars	\$36,100	\$448,377	\$1,229,021
HEU fuel credit *	\$dollars	\$28,195	\$375,006	\$831,021
#1 Compressor run time *	hours	718	5,878	28,606
#2 Compressor run time *	hours	135	3,641	18,562
#3 Compressor run time *	hours	534	2,902	13,037

<sup>\*</sup> Field/CHEU Compressor Operations based on Jun 06 activity

Field Compressor Charges	Charges Billed (\$)*		5)*
BOC Global Helium, Inc., Contract no. 1995-3249			
Praxair, Inc., Contract no. 1995-3251			
Air Products, L.P., Contract no. 1995-3256			
Keyes Helium Co., LLC, Contract no. 1995-3287			
SubTotal - Cliffside Refiners, LP (provides booster compression services)	(\$57,960)	(\$534,911)	(\$4,696,060)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	<u>\$14,164</u>	<u>\$140,799</u>	<u>\$1,154,526</u>
Net Total - Cliffside Refiners, LP	(\$43,796)	(\$394,112)	(\$3,541,534)

<sup>\*</sup> BLM provided fuel cost is based on Apr 06 fuel consumed

\*Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU)	Month		FYTD	Cumulative
CHEU Runtime	Runtime Percent		Runtime	Runtime
Processing feed gas	715	96.0%	6,178	26,092
Producing natural gas liquids	711	95.5%	6,074	20,316
Producing helium product	709	95.3%	6,034	23,589
Producing residue gas	707	95.1%	6,071	24,501

	Charges Billed (\$)*		
CHEU Charges	Month	FYTD	Cummulative
Reservior Management Fees (RMF)	\$219,238	\$1,684,319	\$5,351,033
Total operating costs	<u>(\$852,613)</u>	(\$7,828,167)	(\$31,369,212)
Labor	\$57,952	\$521,568	\$1,995,020
Compressor fuel cost *	\$39,268	\$515,794	\$1,113,454
HEU fuel cost *	\$35,306	\$406,996	\$811,425
Electric Power *	\$149,071	\$1,342,363	\$4,311,550
Other	<u>(\$281,597)</u>	<u>(\$2,786,721)</u>	<u>(\$4,109,497)</u>
Sub Total - Items provided by BLM	\$384,113	\$3,611,667	\$13,381,716
Total - Cliffside Refiners, LP, GDA030001	(\$468,500)	(\$4,216,500)	(\$17,987,496)

<sup>\*</sup> Based on Apr 06 activity

\*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) *	4,340	45,916	131,413
Cheu Pure Water Usage (gallons) *	3,440	27,256	117,848
Electricity Metered (Kwh) used *	2,320,981	20,291,231	74,834,515